

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2013 Levee Inspection Results****Sutter Maintenance Yard East Levee Sacramento River**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	20.39
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/19/2013 - 03/19/2013			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River				Left	20.39	03/19/2013 03/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
1				Operations & Maintenance Manuals	WS A Ma		°	°	31
DWR ID: DWR_ST0003_01_s_2013_31									
2				Emergency Supplies & Equipment	WS A Ma		°	°	32
DWR ID: DWR_ST0003_01_s_2013_32									
3				Flood Preparedness & Training	WS A Ma		°	°	33
DWR ID: DWR_ST0003_01_s_2013_33									
4	0.08	0.14		Encroachments	WS U En	BU : Building	39.194978 ° -121.937502 °	39.195022 ° -121.938563 °	3 Y
DWR ID: DWR_ST0003_01_s_2012_3									
5	1.11	1.11		Encroachments	LS U En	PI : Pipe Inspector Comments: The pipe has rusted apart at the toe of the levee.	39.194105 ° 121.953558 °	39.194105 ° 121.953558 °	34
DWR ID: DWR_ST0003_01_s_2013_34									
6	1.37	1.37		Encroachments	LS U En	PI : Pipe	39.192562 ° -121.958002 °	39.192562 ° -121.958002 °	13
DWR ID: DWR_ST0003_01_s_2012_13									
7	3.03	3.03		Animal Control	WS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.193945 ° -121.983368 °	39.193945 ° -121.983368 °	23 Y
DWR ID: DWR_ST0003_01_s_2012_23									
8	3.06	3.12		Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.194353 ° -121.983593 °	39.195200 ° -121.983993 °	24 Y
DWR ID: DWR_ST0003_01_s_2012_24									
9	3.78	3.78		Encroachments	LS U En	PI : Pipe	39.204033 ° -121.982727 °	39.204033 ° -121.982727 °	35 Y
DWR ID: DWR_ST0003_01_f_2012_35									
10	4.19	4.19		Encroachments	WS M En	BU : Building	39.208935 ° -121.985310 °	39.208935 ° -121.985310 °	11 Y
DWR ID: DWR_ST0003_01_s_2012_11									
11	4.66	4.84		Encroachments	CR U En	BU : Building	39.213265 ° -121.991672 °	39.213265 ° -121.991672 °	12 Y
DWR ID: DWR_ST0003_01_s_2012_12									
12	4.66	4.66		Slope Stability	WS M Ma	S1 : Repair slope instability.	39.213271 ° -121.991676 °	39.213271 ° -121.991676 °	15 Y
DWR ID: DWR_ST0003_01_s_2013_15									
13	4.81	4.81		Encroachments	LS U En	BU : Building	39.214168 ° -121.993515 °	39.214168 ° -121.993515 °	20 Y
DWR ID: DWR_ST0003_01_s_2012_20									
14	4.81	4.81		Vegetation	LS M En	V6 : Landscaping	39.214218 ° -121.993682 °	39.214218 ° -121.993682 °	22
DWR ID: DWR_ST0003_01_s_2012_22									

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River				Left	20.39	03/19/2013 03/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating + Ma	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	4.84	4.84		Trim / Thin Trees	WS	M	T1 : Trim trees to at least five feet above ground level.	39.214232 ° -121.993805 °	39.214215 ° -121.993810 °	18
DWR ID: DWR_ST0003_01_s_2012_18										
16	6.33	6.33		Encroachments	LS	M	PR : Prunings	39.223540 ° -121.999028 °	39.223540 ° -121.999028 °	14
DWR ID: DWR_ST0003_01_s_2012_14										
17	6.42	6.42		Encroachments	LS	M	MA : Material	39.224982 ° -121.998600 °	39.225013 ° -121.998585 °	21
DWR ID: DWR_ST0003_01_s_2012_21										
18	6.80	6.80		Erosion / Bank Caving	WS	M	E2 : Schedule repair of erosion site prior to the next inspection.	39.228295 ° -121.998571 °	39.228295 ° -121.998571 °	19
DWR ID: DWR_ST0003_01_s_2013_19										
19	8.76	8.76		Encroachments	LS	U	BU : Building	39.252260 ° -121.997721 °	39.252260 ° -121.997721 °	2
DWR ID: DWR_ST0003_01_s_2012_2										
20	9.23	9.23		Encroachments	LS	M	PR : Prunings	39.257977 ° -122.000322 °	39.257977 ° -122.000322 °	1
DWR ID: DWR_ST0003_01_s_2012_1										
21	10.27	10.27		Encroachments	LS	M	BU : Building	39.270431 ° -121.999782 °	39.270431 ° -121.999782 °	4
DWR ID: DWR_ST0003_01_s_2012_4										
22	10.36	10.36		Vegetation	LS	M	V4 : Elderberries are blocking visibility and flood fight capability.	39.270503 ° -122.001339 °	39.270503 ° -122.001339 °	5
DWR ID: DWR_ST0003_01_s_2012_5										
23	10.46	10.46	Supplemental	USACE Erosion Survey	WSA/W	Ma	Inspector Comments: 2009 - Toe erosion and sliding cobbles. 2012: Old cobbles failed but bank is stable, site removed. [2012 Site ID: SAC_150-2_L]	39.271494 ° -122.003497 °	39.271307 ° -122.003295 °	27
DWR ID: DWR_ST0003_01_s_2013_27										
24	11.51	11.51	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012: Minor new erosion and tree roots are further exposed. [2012 Site ID: SAC_152-6_L]	39.283853 ° -122.016113 °	39.279910 ° -122.018221 °	28
DWR ID: DWR_ST0003_01_s_2013_28										
25	11.67	11.90		Encroachments	LS	M	DT : Ditch	39.282064 ° -122.016517 °	39.285084 ° -122.014815 °	6
DWR ID: DWR_ST0003_01_s_2012_6										
26	11.83	11.89	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011 - Minor new erosion. 2012: Minor new erosion. [2012 Site ID: SAC_152-8_L]	39.285298 ° -122.015208 °	39.284568 ° -122.015690 °	29
DWR ID: DWR_ST0003_01_s_2013_29										
27	11.95	12.18		Encroachments	LS	M	DT : Ditch	39.285658 ° -122.014574 °	39.288978 ° -122.013892 °	7
DWR ID: DWR_ST0003_01_s_2012_7										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Sacramento River				Left	20.39	03/19/2013 03/19/2013	Bob Duffey	

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
28	13.47	13.66		Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.307448 ° -122.013037 °	39.310231 ° -122.012912 °	9 Y
DWR ID: DWR_ST0003_01_s_2012_9										
29	14.55	14.55		Encroachments	WS	U En	PI : Pipe	39.322254 ° -122.015985 °	39.322254 ° -122.015985 °	25 Y
DWR ID: DWR_ST0003_01_s_2013_25										
30	16.95	16.95		Encroachments	LS	M En	PR : Prunings	39.347308 ° -122.015264 °	39.347308 ° -122.015264 °	36 Y
DWR ID: DWR_ST0003_01_f_2012_36										
31	17.44	17.44		Encroachments	LS	M En	PR : Prunings	39.351311 ° -122.009409 °	39.351311 ° -122.009409 °	30 Y
DWR ID: DWR_ST0003_01_s_2013_30										
32	18.00	18.08		Encroachments	LS	M Ma	FW : Firewood	39.358956 ° -122.007492 °	39.359565 ° -122.006219 °	10
DWR ID: DWR_ST0003_01_s_2012_10										
33	18.04	18.18		Encroachments	LS	M Ma	EQ : Equipment	39.359188 ° -122.006878 °	39.359980 ° -122.004517 °	16 Y
DWR ID: DWR_ST0003_01_s_2012_16										
34	18.80	18.80		Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.364865 ° -121.997788 °	39.364865 ° -121.997788 °	26
DWR ID: DWR_ST0003_01_s_2012_26										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/19/2013 03/19/2013	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	0.08
End Levee Mile	0.14
Location	Water Side
Category	
Item	Encroachments

View of a old building next to the landside toe.

rduffey_s_20130225_256.jpg



Levee Mile Report Line	7
Start Levee Mile	3.03
End Levee Mile	3.03
Location	Water Side
Category	
Item	Animal Control

View of the rodent holes & bait station.

rduffey_s_20130225_263.jpg



Levee Mile Report Line	8
Start Levee Mile	3.06
End Levee Mile	3.12
Location	Land Side
Category	
Item	Animal Control

View of the rodent holes & bait station.

rduffey_s_20130225_264.jpg



*** Location**

LS : Land Side
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CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/19/2013 03/19/2013	Bob Duffey

Levee Mile Report Line	9
Start Levee Mile	3.78
End Levee Mile	3.78
Location	Land Side
Category	
Item	Encroachments

View of the subsidence at the levee toe from a hole in the irrigation pipe.

rduffey_s_20130225_273.JPG



Levee Mile Report Line	10
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Water Side
Category	
Item	Encroachments

View of the trailer next to the W/S toe.

rduffey_s_20130225_258.jpg



Levee Mile Report Line	11
Start Levee Mile	4.66
End Levee Mile	4.84
Location	Crown
Category	
Item	Encroachments

View of the barn on the large crown of the levee.

rduffey_s_20130225_259.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/19/2013 03/19/2013	Bob Duffey

Levee Mile Report Line	12
Start Levee Mile	4.66
End Levee Mile	4.66
Location	Water Side
Category	
Item	Slope Stability

View of the erosion along the waterside slope.

rduffey_s_20130402_340.JPG



Levee Mile Report Line	13
Start Levee Mile	4.81
End Levee Mile	4.81
Location	Land Side
Category	
Item	Encroachments

View of the building next to the L/S toe.

rduffey_s_20130225_261.jpg



Levee Mile Report Line	17
Start Levee Mile	6.42
End Levee Mile	6.42
Location	Land Side
Category	
Item	Encroachments

View of the material & garbage along the toe.

rduffey_s_20130225_262.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/19/2013 03/19/2013	Bob Duffey

Levee Mile Report Line	18
Start Levee Mile	6.80
End Levee Mile	6.80
Location	Water Side
Category	
Item	Erosion / Bank Caving

Erosion along the waterside crown.

rduffey_s_20130402_346.JPG



Levee Mile Report Line	19
Start Levee Mile	8.76
End Levee Mile	8.76
Location	Land Side
Category	
Item	Encroachments

View of the building next to the toe of the levee.

rduffey_s_20130225_255.jpg



Levee Mile Report Line	20
Start Levee Mile	9.23
End Levee Mile	9.23
Location	Land Side
Category	
Item	Encroachments

View of the prunings along the L/S toe.

rduffey_s_20130225_254.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/19/2013 03/19/2013	Bob Duffey

Levee Mile Report Line	23
Start Levee Mile	10.46
End Levee Mile	10.46
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

rduffey_s_20130225_265.jpg



Levee Mile Report Line	24
Start Levee Mile	11.51
End Levee Mile	11.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

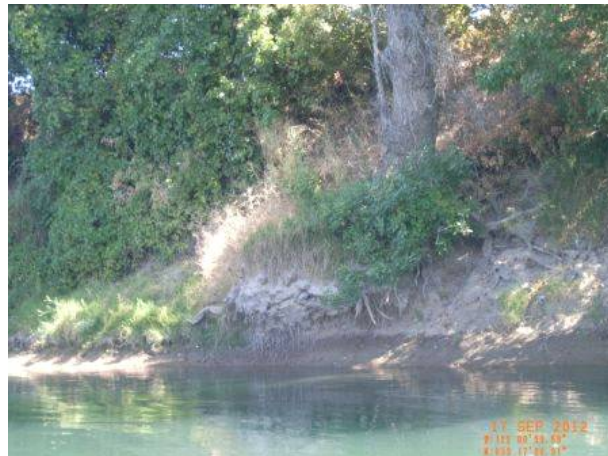
rduffey_s_20130225_266.jpg



Levee Mile Report Line	24
Start Levee Mile	11.51
End Levee Mile	11.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

rduffey_s_20130225_267.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/19/2013 03/19/2013	Bob Duffey

Levee Mile Report Line	24
Start Levee Mile	11.51
End Levee Mile	11.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

rduffey_s_20130225_268.jpg



Levee Mile Report Line	24
Start Levee Mile	11.51
End Levee Mile	11.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

rduffey_s_20130225_269.jpg



Levee Mile Report Line	26
Start Levee Mile	11.83
End Levee Mile	11.89
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

rduffey_s_20130225_270.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/19/2013 03/19/2013	Bob Duffey

Levee Mile Report Line	26
Start Levee Mile	11.83
End Levee Mile	11.89
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

rduffey_s_20130225_271.jpg



Levee Mile Report Line	26
Start Levee Mile	11.83
End Levee Mile	11.89
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

rduffey_s_20130225_272.jpg



Levee Mile Report Line	28
Start Levee Mile	13.47
End Levee Mile	13.66
Location	Water Side
Category	
Item	Erosion / Bank Caving

View of the erosion along the W/S toe.

rduffey_s_20130225_257.jpg

*** Location**

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Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/19/2013 03/19/2013	Bob Duffey

Levee Mile Report Line	29
Start Levee Mile	14.55
End Levee Mile	14.55
Location	Water Side
Category	
Item	Encroachments

View of the unauthorized pipe placed inside the drain pipe.

rduffey_s_20130402_341.JPG



Levee Mile Report Line	30
Start Levee Mile	16.95
End Levee Mile	16.95
Location	Land Side
Category	
Item	Encroachments

View of the brush pile along the landside toe.

rduffey_s_20130225_274.JPG



Levee Mile Report Line	31
Start Levee Mile	17.44
End Levee Mile	17.44
Location	Land Side
Category	
Item	Encroachments

View of the walnut orchard stumps along the landside toe.

rduffey_s_20130402_342.JPG



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	03/19/2013 03/19/2013	Bob Duffey

Levee Mile Report Line	33
Start Levee Mile	18.04
End Levee Mile	18.18
Location	Land Side
Category	
Item	Encroachments

View of the equipment and trees next to the landside toe of the levee.

rduffey_s_20130225_260.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 02 Colusa Bypass			Right	2.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/19/2013 - 03/19/2013			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

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Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass						Right	2.20	03/19/2013 03/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.01	0.01		Vegetation	LS	M	V4 : Elderberries are blocking visibility and flood fight capability.	39.232058 ° -121.995514 °	39.232058 ° -121.995514 °	1 Y
DWR ID: DWR_ST0003_02_s_2012_1										
2	0.38	0.38		Vegetation	WS	A	V1 : Control annual grass and weeds on the levee slopes and easements.	39.231393 ° -121.988968 °	39.231393 ° -121.988968 °	2 Y
DWR ID: DWR_ST0003_02_s_2013_2										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	03/19/2013 03/19/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	0.01
Location	Land Side
Category	
Item	Vegetation

View of the elderberries along the landside toe of the levee.

rduffey_s_20130225_275.jpg



Levee Mile Report Line	2
Start Levee Mile	0.38
End Levee Mile	0.38
Location	Water Side
Category	
Item	Vegetation

View of the native grasses on both slopes.

rduffey_s_20130402_343.JPG



*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 03 Colusa Bypass			Left	2.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/19/2013 - 03/19/2013			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
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If additional items are noted, further documentation of those items must also be submitted.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass						Left	2.28	03/19/2013 03/19/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.72	0.72		Encroachments	LS	M En	TR : Tree or limb	39.237854 ° -121.980985 °	39.237854 ° -121.980985 °	1 Y
								DWR ID: DWR_ST0003_03_s_2013_1		
2	1.98	1.98		Vegetation	LS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	39.244888 ° -121.965595 °	39.244888 ° -121.965595 °	10 Y
								DWR ID: DWR_ST0003_03_s_2012_10		
3	2.17	2.17		Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	39.244838 ° -121.962072 °	39.244838 ° -121.962072 °	13
								DWR ID: DWR_ST0003_03_s_2012_13		

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.28	03/19/2013 03/19/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.72
End Levee Mile	0.72
Location	Land Side
Category	
Item	Encroachments

View of the downed willow trees along the landside toe.

rduffey_s_20130402_344.JPG



Levee Mile Report Line	2
Start Levee Mile	1.98
End Levee Mile	1.98
Location	Land Side
Category	
Item	Vegetation

View of the elderberries along the landside toe of the levee.

rduffey_s_20130225_276.jpg



*** Location**

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CR : Crown

**** Rating**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 04 Moulton Bypass			Right	0.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/20/2013 - 03/20/2013			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	03/20/2013 03/20/2013	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.02	0.02		Vegetation	WS	M Ma	V4 : Elderberries are blocking visibility and flood fight capability.	39.338141 ° -122.021852 °	39.338141 ° -122.021852 °	2 Y
DWR ID: DWR_ST0003_04_s_2012_2										
2	0.06	0.06		Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	39.337963 ° -122.021023 °	39.337963 ° -122.021023 °	1 Y
DWR ID: DWR_ST0003_04_s_2013_1										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	03/20/2013 03/20/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Water Side
Category	
Item	Vegetation

View of an elderberry bush by the waterside toe.

rduffey_s_20130225_277.jpg



Levee Mile Report Line	2
Start Levee Mile	0.06
End Levee Mile	0.06
Location	Land Side
Category	
Item	Vegetation

View of the native grass on both slopes.

rduffey_s_20130403_353.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 05 Moulton Bypass			Left	2.00
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/20/2013 - 03/20/2013			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

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Levee Inspection Report By Mile - Spring 2013

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 05 Moulton Bypass						Left	2.00	03/20/2013 03/20/2013	Bob Duffey	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.77	0.77		Animal Control	LS	M Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access.	39.340822 ° -122.009453 °	39.340822 ° -122.009453 °	1 Y
DWR ID: DWR_ST0003_05_s_2013_1										
2	0.77	0.77		Slope Stability	LS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.340822 ° -122.009452 °	39.340822 ° -122.009452 °	2 Y
DWR ID: DWR_ST0003_05_s_2013_2										
3	0.85	0.85		Animal Control	LS	A/W Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.340210 ° -122.008117 °	39.340210 ° -122.008117 °	4 Y
DWR ID: DWR_ST0003_05_s_2012_4										
4	0.85	0.85		Animal Control	WSA/W	Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.340213 ° -122.008113 °	39.340213 ° -122.008113 °	5 Y
DWR ID: DWR_ST0003_05_s_2012_5										
5	1.06	1.06		Animal Control	WSA/W	Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.338748 ° -122.004700 °	39.338748 ° -122.004700 °	6 Y
DWR ID: DWR_ST0003_05_s_2012_6										

* Location	** Rating	+ Issue Type
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WS : Water Side	N : Not Inspected/Rated	Ob : Design & System Obsolescence
CR : Crown	M : Minimally Acceptable	En : Enforcement
	U : Unacceptable	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.00	03/20/2013 03/20/2013	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Land Side
Category	
Item	Animal Control

View of the landowners livestock on both slopes.

rduffey_s_20130403_354.JPG



Levee Mile Report Line	2
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Land Side
Category	
Item	Slope Stability

View of the repaired rodent holes and bait station along the landside slope.

rduffey_s_20130225_278.JPG



Levee Mile Report Line	3
Start Levee Mile	0.85
End Levee Mile	0.85
Location	Land Side
Category	
Item	Animal Control

View of the repaired rodent holes along the landside slope.

rduffey_s_20130225_279.JPG



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.00	03/20/2013 03/20/2013	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	0.85
End Levee Mile	0.85
Location	Water Side
Category	
Item	Animal Control
View of the repaired rodent holes along the waterside slope.	
rduffey_s_20130225_280.JPG	



Levee Mile Report Line	5
Start Levee Mile	1.06
End Levee Mile	1.06
Location	Water Side
Category	
Item	Animal Control
View of the repaired rodent holes and bait station along the waterside slope.	
rduffey_s_20130225_281.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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